

Checklist of the leaf-mining flies (Diptera, Agromyzidae) of Finland

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Abstract

A checklist of the Agromyzidae (Diptera) recorded from Finland is presented. 279 (or 280) species are currently known from the country. *Phytomyza linguae* Lundqvist, 1947 is recorded as new to Finland.

Keywords

Checklist, Finland, Diptera, biodiversity, faunistics

Introduction

The Agromyzidae are called the leaf-miner or leaf-mining flies and not without reason, although a substantial fraction of the species feed as larvae on other parts of living plants. While Agromyzidae is traditionally placed in the superfamily Opomyzoidea, its exact relationships with other acalyptrate Diptera are poorly understood (see for example Winkler et al. 2010).

Two subfamilies are recognised within the leaf-mining flies: Agromyzinae and Phytomyzinae. Both are now recognised as natural groups (Dempewolf 2005, Scheffer et al. 2007). Unfortunately the genera are not as well defined: at least *Ophiomyia*, *Phytoliriomyza* and *Aulagromyza* are paraphyletic in DNA sequence analyses (see Scheffer et al. 2007). The same studies and Winkler et al. (2009) suggest that *Chromatomyia*

consists of at least two separate groups of species within *Phytomyza*, and *Napomyza* (which is given a status of a subgenus of *Phytomyza* by Winkler et al. (2009)) also needs re-evaluation. For the purposes of this checklist, a conservative approach is adopted with *Chromatomyia* and *Napomyza* as separate genera.

Richard Frey was the first Finnish dipterist to study the agromyzid fauna of the country in detail (Frey 1937, 1946). L. Tiensuu and E. Thuneberg continued Frey's work but most of their work remained unpublished until Nowakowski (1967) and Spencer (1976) reviewed the major Finnish agromyzid collections. Spencer's book remains the primary identification tool for North European Agromyzidae. Interest in Finnish agromyzids has remained sporadic. The Finnish species were last listed by Hackman (1980).

Number of species:

World: 3004 spp. (M. Černý & M. von Tschirnhaus, pers. comm., March 2014)

Europe: 914 species (von Tschirnhaus, pers. comm., March 2014)

Finland: 279–280 species

Faunistic knowledge level in Finland: average

Checklist

suborder Brachycera Macquart, 1834

clade Eremoneura Lameere, 1906

clade Cyclorrhapha Brauer, 1863

infraorder Schizophora Becher, 1882

clade Muscaria Enderlein, 1936

parvorder Acalyptratae Macquart, 1835

superfamily Opomyzoidea Newman, 1834

AGROMYZIDAE Fallén, 1823

AGROMYZINAE Fallén, 1823

AGROMYZA Fallén, 1810

Agromyza abiens Zetterstedt, 1848

Agromyza albipennis Meigen, 1830

Agromyza albitarsis Meigen, 1830

Agromyza alnibetulae Hendel, 1931

Agromyza alnivora Spencer, 1969

Agromyza alunulata (Hendel, 1931)

Agromyza ambigua Fallén, 1823

= *niveipennis* Zetterstedt, 1848

Agromyza anthracina Meigen, 1830

= *freyi* Hendel, 1931

Agromyza bicaudata (Hendel, 1931)

Agromyza cinerascens Macquart, 1835

- Agromyza demeijerei* Hendel, 1920
Agromyza erythrocephala Hendel, 1920
Agromyza flaviceps Fallén, 1823
Agromyza graminicola Hendel, 1931
Agromyza idaeiana Hardy, 1853
 = *potentillae* (Kaltenbach, 1864)
 = *spiraeae* Kaltenbach, 1867
 = *stackelbergi* (Frey, 1946)
Agromyza igniceps Hendel, 1920
 = *lathyri* misid.
Agromyza lapponica Hendel, 1931
Agromyza lucida Hendel, 1920
Agromyza luteitarsis (Rondani, 1875)
 = *intermittens* misid.
Agromyza marionae Griffiths, 1963
 = *alandensis* Spencer, 1976
Agromyza mobilis Meigen, 1830
Agromyza nana Meigen, 1830
Agromyza nigrella (Rondani, 1875)
Agromyza nigrescens Hendel, 1920
Agromyza nigripes Meigen, 1830
Agromyza nigrociliata Hendel, 1931
Agromyza orobi Hendel, 1920
Agromyza phragmitidis Hendel, 1922
Agromyza pseudoreptans Nowakowski, 1967
 = *urticae* Nowakowski, 1964 preocc.
Agromyza quadriseta Zlobin, 2001
Agromyza reptans Fallén, 1823
Agromyza rufipes (Meigen, 1830)
Agromyza salicina Hendel, 1922
Agromyza sulfuriceps Strobl, 1898
Agromyza vicifoliae Hering, 1932
HEXOMYZA Enderlein, 1936
Hexomyza schineri (Giraud, 1861)
Hexomyza simplicoides (Hendel, 1920)
MELANAGROMYZA Hendel, 1920
Melanagromyza aenea (Meigen, 1830)
Melanagromyza aeneoventris (Fallén, 1823)
Melanagromyza angeliciphaga Spencer, 1969
Melanagromyza chaerophylli Spencer, 1969
Melanagromyza lappae (Loew, 1850)
Melanagromyza nigrissima Spencer, 1976
Melanagromyza oligophaga Spender, 1990

Melanagromyza pubescens Hendel, 1923

Melanagromyza submetallescens Spencer, 1966

OPHIOMYIA Braschnikov, 1897

Ophiomyia beckeri (Hendel, 1923)

= *goniaea* (Hendel, 1931)

Ophiomyia cunctata (Hendel, 1920)

Ophiomyia curvipalpis (Zetterstedt, 1848)

Ophiomyia fennoniensis Spencer, 1976

?= *eucodonus* Hering, 1960

= *melandryi* misid.

Ophiomyia heringi Starý, 1930

= *penicillata* misid.

Ophiomyia labiatarum Hering, 1937

= *persimilis* misid.

Ophiomyia longilingua (Hendel, 1920)

= *rostrata* misid.

Ophiomyia maura (Meigen, 1838)

Ophiomyia nasuta (Melandar, 1913)

Ophiomyia orbiculata (Hendel, 1931)

= *hexachaeta* (Hendel, 1931)

= *nostradamus* (Hering, 1933)

= *paracelsus* (Hering, 1933)

Ophiomyia pinguis (Fallén, 1820)

Ophiomyia pulicaria (Meigen, 1830)

Ophiomyia ranunculicaulis Hering, 1949

Ophiomyia vitiosa Spencer, 1964

?= *alliariae* Hering, 1954

PHYTOMYZINAE Fallén, 1823

AMAUROMYZA Hendel, 1931

sg. Amauromyza Hendel, 1931

Amauromyza morionella (Zetterstedt, 1848)

sg. Cephalomyza Hendel, 1931

= **Trilobomyza** Hendel, 1931

Amauromyza chenopodivora Spencer, 1971

= *abnormalis* misid.

Amauromyza flavifrons (Meigen, 1830)

Amauromyza gyrans (Fallén, 1823)

Amauromyza karli (Hendel, 1927)

= *Dizygomyza facialis* Frey, 1941 nom. nudum

Amauromyza labiatarum (Hendel, 1920)

Amauromyza luteiceps (Hendel, 1920)

Amauromyza monfalconensis (Strobl, 1909)

AULAGROMYZA Enderlein, 1936

- = ***Paraphytomyza*** Enderlein, 1936
Aulagromyza buhri (de Meijere, 1938)
Aulagromyza fulvicornis (Hendel, 1935)
Aulagromyza hendeliana (Hering, 1926)
Aulagromyza heringii (Hengel, 1920)
Aulagromyza lucens (de Meijere, 1924)
Aulagromyza luteoscutellata (de Meijere, 1924)
 = *xylostei* misid.
Aulagromyza similis (Brischke, 1880)
Aulagromyza tremulae (Hering 1957)
Aulagromyza tridentata (Loew, 1858)
Aulagromyza trivittata (Loew, 1873)
CALYCOMYZA Hendel, 1931
Calycomyza artemisiae (Kaltenbach, 1856)
Calycomyza subapproximata (Sasakawa, 1955)
CERODONTA Rondani, 1861
sg. *Butomomyza* Nowakowski, 1967
Cerodontha caricivora (Groschke, 1954)
Cerodontha eucaricis Nowakowski, 1967
Cerodontha rohdendorfi Nowakowski, 1967
Cerodontha scirpi (Karl, 1926)
 = *scutellaris* misid.
 = *semiposticata* misid.
Cerodontha staryi (Starý, 1930)
sg. *Cerodontha* Rondani, 1861
Cerodontha affinis (Fallén, 1823)
Cerodontha denticornis (Panzer, 1806)
Cerodontha fulvipes (Meigen, 1830)
 = *femoralis* (Meigen, 1838)
Cerodontha hennigi Nowakowski, 1967
 = *lateralis* (Zetterstedt, 1848) preocc.
Cerodontha stackelbergi Nowakowski, 1972
sg. *Dizygomyza* Hendel, 1920
Cerodontha bimaculata (Meigen, 1830)
Cerodontha fasciata (Strobl, 1880)
Cerodontha ireos (Robineau-Desvoidy, 1851)
Cerodontha luctuosa (Meigen, 1830)
Cerodontha morosa (Meigen, 1830)
sg. *Icteromyza* Hendel, 1931
Cerodontha bohemani (Rydén, 1951)
Cerodontha capitata (Zetterstedt, 1848)
Cerodontha churchillensis Spencer, 1969
Cerodontha geniculata (Fallén, 1823)

Cerodontha lineella (Zetterstedt, 1838)

sg. *Phytagromyza* Hendel, 1920

Cerodontha flavocingulata (Strobl, 1909)

= *storai* (Frey, 1946)

sg. *Poemyza* Hendel, 1931

Cerodontha atra (Meigen, 1830)

Cerodontha calamagrostidis Nowakowski, 1967

= *spenceri* Nowakowski, 1967

= *tschirnhausi* Nowakowski, 1973

Cerodontha calosoma (Hendel, 1931)

Cerodontha imbuta (Meigen, 1838)

= *deschampsiae* (Spencer, 1957)

Cerodontha incisa (Meigen, 1830)

Cerodontha lateralis (Macquart, 1835)

Cerodontha muscina (Meigen, 1830)

Cerodontha phragmitidis Nowakowski, 1967

Cerodontha pygmaea (Meigen, 1830)

Cerodontha pygmella (Hendel, 1931)

= *lapplandica* (Rydén, 1956)

Cerodontha spencerae Zlobin, 1993

= *inconspicua* auct. nec (Malloch, 1914)

Cerodontha thunebergi Nowakowski, 1967

sg. *Xenophytomyza* Frey, 1946

Cerodontha atronitens (Hendel, 1920)

Cerodontha biseta (Hendel, 1920)

= *crassinervis* (Frey, 1946)

Cerodontha venturii Nowakowski, 1967

CHROMATOMYIA Hardy, 1849

Chromatomyia asteris (Hendel, 1934)

Chromatomyia ciliata (Hendel, 1935)

Chromatomyia farfarella (Hendel, 1935)

Chromatomyia fuscula (Zetterstedt, 1838)

Chromatomyia glacialis (Griffiths, 1964)

Chromatomyia horticola (Goureaux, 1851)

Chromatomyia isicae (Hering, 1962)

Chromatomyia linnaeae Griffiths, 1974

Chromatomyia lonicerae (Robineau-Desvoidy, 1851)

= *xylostei* (Kaltenbach, 1862) preocc.

Chromatomyia luzulae (Hering, 1924)

Chromatomyia milii (Kaltenbach, 1864)

Chromatomyia nigra (Meigen, 1830)

Chromatomyia norwegica (Rydén, 1957)

Chromatomyia ochracea (Hendel, 1920)

- Chromatomyia opacella* (Hendel, 1935)
Chromatomyia periclymeni (Hendel, 1922)
Chromatomyia primulae (Robineau-Desvoidy, 1851)
Chromatomyia ramosa (Hendel, 1923)
 = *nigriventris* (Hendel, 1935)
Chromatomyia styriaca Griffiths, 1980
Chromatomyia syngenesiae Hardy, 1849
GALIOMYZA Spencer, 1981
Galiomyza morio (Brischke, 1880)
LIRIOMYZA Mik, 1894
Liriomyza amoena (Meigen, 1830)
Liriomyza angulicornis (Malloch, 1918)
 = *triglochinae* Hendel, 1931
Liriomyza approximata (Hendel, 1920)
Liriomyza artemisicola de Meijere, 1924
Liriomyza bryoniae (Kaltenbach, 1858)
Liriomyza buhri Hering, 1937
 = *adolescens* Frey, 1946
Liriomyza bulbata Hendel, 1931
Liriomyza canescens Spencer, 1976
 = *graminicola* misid.
Liriomyza cannabis Hendel, 1931
Liriomyza congesta (Becker, 1903)
 = *minima* Hendel, 1931
 = *parva* Hendel, 1931
Liriomyza demeijerei Hering, 1930
Liriomyza equiseti de Meijere, 1924
Liriomyza eupatorii (Kaltenbach, 1873)
 = *orbitella* Hendel, 1931
Liriomyza flaveola (Fallén, 1823)
Liriomyza flavopicta Hendel, 1931
Liriomyza freyella Spencer, 1976
Liriomyza hieracii (Kaltenbach, 1862)
Liriomyza infusata Hering, 1926
Liriomyza lutea (Meigen, 1830)
Liriomyza occipitalis Hendel, 1931
Liriomyza orbona (Meigen, 1830)
Liriomyza pedestris Hendel, 1931
Liriomyza pseudopygmina (Hering, 1933)
Liriomyza ptarmicae de Meijere, 1925
Liriomyza pusilla (Meigen, 1830)
 = *fasciola* (Meigen, 1838)
Liriomyza pusio (Meigen, 1830)

= *graminicola* de Meijere, 1924

= *breviseta* Frey, 1946

Liriomyza richteri Hering, 1927

Liriomyza sonchi Hendel, 1931

Liriomyza strigata (Meigen, 1830)

= *pumila* (Meigen, 1830)

Liriomyza tanaceti de Meijere, 1924

Liriomyza taraxaci Hering, 1927

Liriomyza valerianae Hendel, 1932

Liriomyza virgo (Zetterstedt, 1838)

Liriomyza virgula Frey, 1946

Liriomyza wachtlii Hendel, 1920

METOPOMYZA Enderlein, 1936

Metopomyza flavonotata (Haliday, 1833)

Metopomyza interfrontalis (Melandar, 1913)

= *xanthaspida* (Hendel, 1920)

Metopomyza scutellata (Fallén, 1823)

= *flavoscutellaris* misid.

Metopomyza xanthaspioides (Frey, 1946)

Metopomyza xanthaspis (Loew, 1858)

NAPOMYZA Westwood, 1840

Napomyza achilleanella von Tschirnhaus, 1992

Napomyza bellidis Griffiths, 1967

Napomyza carotae Spencer, 1966

Napomyza cichorii Spencer, 1966

Napomyza elegans (Meigen, 1830)

Napomyza hirticornis (Hendel, 1932)

Napomyza lateralis (Fallén, 1823)

Napomyza maritima von Tschirnhaus, 1981

Napomyza merita Zlobin, 1993

Napomyza plumea Spencer, 1969

NEMORIMYZA Frey, 1946

Nemorimyza posticata (Meigen, 1830)

PHYTOBIA Lioy, 1864

= ***Dendromyza*** Hendel, 1931

Phytobia aucupariae (Kangas, 1949)

Phytobia cambii (Hendel, 1931)

= *betulae* (Kangas, 1935)

= *tremulae* (Kangas, 1949)

Phytobia mallochi (Hendel, 1924)

PHYTOLIRIOMYZA Hendel, 1931

Phytoliriomyza arctica (Lundbeck, 1901)

Phytoliriomyza dorsata (Siebke, 1863)

= *Liriomyza fasciata* misid.

= *pectoralis* misid.

Phytoliriomyza hilarella (Zetterstedt, 1848)

Phytoliriomyza melampyga (Loew, 1869)

Phytoliriomyza mikii (Strobl, 1898)

Phytoliriomyza ornata (Meigen, 1830)

= *elegantula* (Zetterstedt, 1848)

Phytoliriomyza perpusilla (Meigen, 1830)

PHYTOMYZA Fallén, 1810

Phytomyza abdominalis Zetterstedt, 1848

= *gentianae* misid.

Phytomyza aconitophila Hendel, 1927

Phytomyza actaeae Hendel, 1922

Phytomyza adjuncta Hering, 1928

Phytomyza albiceps Meigen, 1830

= *rydeniana* Hering, 1949

Phytomyza albipennis Fallén, 1823

Phytomyza anemones Hering, 1925

Phytomyza angelicae Kaltenbach, 1872

Phytomyza angelicastris Hering, 1932

Phytomyza aquilegiae Hardy, 1849

Phytomyza aquilonia Frey, 1946

Phytomyza artemisivora Spencer, 1971

Phytomyza buhriella Spencer, 1969

Phytomyza calthophila Hering, 1931

Phytomyza campanulae Hendel, 1920

Phytomyza chaerophylli Kaltenbach, 1856

= *anthrisci* Hendel, 1924

= *carvi* Hering, 1931

Phytomyza cirsii Hendel, 1923

= *cirsicola* Hendel, 1927

Phytomyza continua Hendel, 1920

= *polyarthrocera* Frey, 1946

Phytomyza crassiseta Zetterstedt, 1860

Phytomyza dasyops Hendel, 1920

Phytomyza diversicornis Hendel, 1927

Phytomyza enigmoides Hering, 1937

= *enigma* Hering, 1936 preocc.

Phytomyza erigerophila Hering, 1927

Phytomyza eumorpha Frey, 1946

Phytomyza evanescens Hendel, 1920

= *calthivora* misid.

= *opaca* misid.

Phytomyza fallaciosa Brischke, 1880

= *pseudohellebori* Hendel, 1920

- = *bonsdorfi* Hendel, 1935
- Phytomyza flavicornis* Fallén, 1823
- Phytomyza flavofemorata* Strobl, 1893
- = *distantipila* Frey, 1950
- = *aristata* misid.
- = *pratensis* de Meijere, 1926
- Phytomyza glabra* Hendel, 1935
- Phytomyza glechomae* Kaltenbach, 1862
- ? *Phytomyza gymnostoma* Loew, 1858
- Phytomyza hellebori* Kaltenbach, 1872
- Phytomyza hendeli* Hering, 1923
- Phytomyza heracleana* Hering, 1937
- Phytomyza hirsuta* Spencer, 1976
- Phytomyza isais* Hering, 1936
- Phytomyza krygeri* Hering, 1949
- Phytomyza lappae* Goureau, 1851
- Phytomyza linguae* Lundqvist, 1947
- Phytomyza marginella* Fallén, 1823
- Phytomyza minuscula* Goureau, 1851
- Phytomyza murina* Hendel, 1935
- Phytomyza mylini* Hering, 1954
- Phytomyza nigrifemur* Hering, 1934
- = *semitenella* Hendel, 1935
- Phytomyza nigripennis* Fallén, 1823
- Phytomyza nigracula* Zetterstedt, 1838
- Phytomyza notata* Meigen, 1830
- Phytomyza obscurella* Fallén, 1823
- Phytomyza pauliloewii* Hendel, 1920
- Phytomyza pimpinellae* Hendel, 1924
- Phytomyza plantaginis* Robineau-Desvoidy, 1851
- Phytomyza ptarmicae* Hering, 1937
- Phytomyza pubicornis* Hendel, 1920
- Phytomyza pullula* Zetterstedt, 1848
- Phytomyza ranunculi* (Schrank, 1803)
- Phytomyza ranunculivora* Hering, 1932
- Phytomyza rapunculi* Hendel, 1927
- = *campanulivora* Spencer, 1971
- Phytomyza rhabdophora* Griffiths, 1964
- Phytomyza rostrata* Hering, 1934
- Phytomyza rufescens* von Roser, 1840
- Phytomyza rufipes* Meigen, 1830
- Phytomyza rydeni* Hering, 1934
- Phytomyza sedicola* Hering, 1924

Phytomyza selini Hering, 1922
Phytomyza socia Brischke, 1880
Phytomyza soenderupi Hering, 1941
Phytomyza solidaginis Hendel, 1920
Phytomyza spinaciae Hendel, 1935
 = *affinis* misid.
Phytomyza spoliata Strobl, 1906
Phytomyza spondylii Robineau-Desvoidy, 1851
 = *pastinacae* misid.
Phytomyza subrostrata Frey, 1946
Phytomyza tanaceti Hendel, 1923
Phytomyza tenella Meigen, 1830
Phytomyza thysselini Hendel, 1923
Phytomyza trollii Hering, 1930
Phytomyza tussilaginis Hendel, 1925
Phytomyza varipes Macquart, 1835
Phytomyza virgaureae Hering, 1926
Phytomyza virosae Pakalniškis, 2000
Phytomyza wahlgreni Rydén, 1944
 = *robustella* misid.
PSEUDONAPOMYZA Hendel, 1920
Pseudonapomyza atra (Meigen, 1830)
Pseudonapomyza europaea Spencer, 1973
SELACHOPS Wahlberg, 1844
Selachops flavocinctus Wahlberg, 1844

Excluded species

Cerodontha silvatica (Groschke, 1957) misidentification
Dizygomyza facialis Frey, 1941 nomen nudum
Liriomyza huidobrensis (Blanchard, 1926) imported
Liriomyza sativae Blanchard, 1938 imported
Liriomyza trifolii (Burgess in Comstock, 1880) imported
Phytomyza atricornis Meigen, 1838 nomen dubium
Phytomyza brischkei Hendel, 1922 misidentification

Notes

Agromyza nigrociliata. First recorded from Finland by Thuneberg in Kaisila (1960).
 The species have since been found at several sites on the south coast (leg. L. Tien-
 suu, K. Winqvist & J. Kahanpää).

- Cerodontha pygmella***. First described from the Russian Far East, then redescribed from northern Sweden as *C. lapplandica* (Rydén) (synonymized by Zlobin 2001) and from Poland as *C. tatrica* Nowakowski (syn. Spencer 1976). The status of this species as distinct from *C. pygmaea* has been doubtful, but Zlobin (2001) pointed out that while *C. pygmella* and *C. pygmaea* are difficult to identify reliably as adults, the larvae are clearly different.
- Liriomyza pedestris* Hendel, 1931** is a valid species according to Zlobin (2003). The Finnish material of the *L. flaveola*-group needs re-examination.
- Ophiomyia fennoniensis*** Spencer is probably a synonym of *O. eucodonus* Hering. Likewise, ***Ophiomyia vitiosa*** Spencer is probably a synonym of *O. alliariae* Hering, 1954 (M. von Tschirnhaus, pers. comm.)
- Phytomyza angelicae*** and ***P. aegopodii***. Spencer (1976) synonymized *P. aegopodii* Hendel, 1923 with *P. angelicae* Kaltenbach. Pakalniškis (2000) reinstated *P. aegopodii* as a valid species but opinions on its status are not unanimous. The Finnish material examined so far represents typical *P. angelicae sensu* Pakalniškis (2000).
- Phytomyza brischkei***. Recorded by Hackman (1980) from Finland, probably on the basis of Frey (1937). As Spencer (1976) points out, this is a misidentification.
- Phytomyza gymnostoma***. Recorded from Finland in Fauna Europaea (Martinez 2011), but I have been unable to trace the original records. Possibly imported to Finland with leeks or onions (*Allium*), its host plants. *P. gymnostoma* is an expanding species with Central Europe and has lately damaged crops of *Allium* species (Darvas et al. 1988).
- Phytomyza linguae***. Spencer (1976) synonymised this species with *P. ranunculivora* Hering. Pakalniškis (1997) reinstated it as a valid species. Both species occur in Finland: L. Tiensuu reared *P. ranunculivora* from *Ranunculus acer* and *P. linguae* from *Ranunculus lingua* from mines collected from Vehkalahti in 1972–3.

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